6/25/2018

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Supplier Name	McMaster- Carr Supply	S68.84 McMaster. Carr Supply Co,	896.64 McMaster- Carr Supply Co,	\$3.70 McMaster- Carr Supply Co,	McMaster- Carr Supply Co,	\$11.45 McMaster- Carr Supply Co.	\$125.12 McMaster- Carr Supply Co,
Su	McMast Carr Supply	McMas Carr Supply Co,	McMas Carr Supply Co,	McMast Carr Supply Co,	McMas Carr Supply Co,	McMas Carr Supply Co.	McMi Supp
<del>-</del>	\$6.57	58.84	96.64	3.70	\$85.51	1.45	5.12
Total		G.	<i>6</i>	03	8	₩	\$ 12
Past Due	1						
s D	m	m	m	ю	r	m	6
Price/Unit Days			192				
Unit	ш	st.	#	#	#	Js.	=
rice/	\$ 0.66 / Ea	\$ 22.95 / sf	24.16	\$ 0.74 / ft	\$ 28.50 / ft	\$ 11.45 / sf	\$ 31.28 / ft
e ve	8 8		6/22/2018 \$ 24.16 / ft			& &	
Receive Date	6/22/2018	6/22/2018	22/20	6/22/2018	6/22/2018	6/22/2018	6/22/2018
Stat	Stock	Stock	Stock	Stock	Stock	Stock	Stock
iner	20	2					
onte	S083365	S083367	S083368	\$083369	\$083370	S083371	5083391
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Received Accounting Container Status Quantity Job No No							
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For Part No							
ion	31- (		- 0 0		ō,		
Description Part Project No	Split Ring, Ø1- 1/16 OD x Ø15/16 ID x 1/8 receive ea	MATERIAL: AISI 301 SS SHEET AINIMUM 114 HARDNESS (NOT ANNEALED) 28 FINNISH AS PER AMS 5517 AMS 5517 AMS 5518 AMS 5519 OR ASTM A666 WHIT MIN FTU = 125 KSI 8 MIN FTY = 125 KSI 8 MIN FTY = 125 KSI	M Delrin Bar, White: MATERIAL: DELRIN II 150E OR ACETRON GP ACETAL	M Delrin Round Bar, Black	Low-Carbon Steel 90 Degree Angle, 1/2""thk 5x5 outside	PTFE : 0.02(	Bar 1"
Des	Split 1/16 Ø15/ 1/8 re	MATERIAL AIS 301 S SHEI SHEI SHEI S SHE	M Delrin Bar, White: MATERIAL: DELRIN II 150E OR ACETRON G ACETRON G	M Delrin Round B Black	Low-Cart Steel 90 Degree A 1/2""thk 5 outside	Teflon PTFE Plastic 0.020"" receive ea	Off White Nylon Bar 1"" Thick, 3"" Wide
Щ.			MDELRINBO.750X3.000W M Delrin Bar, White: MATERIAL: DELRIN II 150E OR ACETRON G ACETRAL receive ft				
Purchased Item			50X3.	22			
hase	173	) OGA	VB0.7	MDELRINRO.375			
Purc	90905A673	M301520GA	ELRIN	ELRIN	9017K94	8569K23	8733K67
		Σ.	₩ ,	Σ Ω	901	856	873
Terms	1 2% 10 Net 30						
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Supplier Item No	MCM00 VU						
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Supplier Name	\$271.12 McMaster- Carr Supply Co,	\$321.92 McMaster- Carr Supply Co,	\$396.45 McMaster- Carr Supply Co,	
Total	\$271.12	\$321.92	\$396.45	\$1,387.32
Past Due				
Aging Days	e	8	е	
Price/Unit	Stock 6/22/2018 \$ 33.85 / ft	Stock 6/22/2018 \$ 40.24 / ft	Stock 6/22/2018 \$ 79.29 / ft	
Receive Date	6/22/2018	6/22/2018	6/22/2018	
Status	Stock	Stock	Stock	
Container No	S083392	S083393	S083394	
Accounting Job No				
Received Quantity	8	80	5	51
Due Date				
Order	8		5	51
Equipment ID				Total:
For Part Project No				
no F F F	e #	٠		
Descripti	M Delrin Bar, White receive ft	M Delrin Ba White	M-Delrin Round Bar, White	
Purchased Item Description Part Project   Equipment Order   Due Received Accounting Container   Status   Receive   Price/Unit Aging Past   Due   No	MDELRINB1,250X3,000W M Delrin Bar, White receive	MDELRINB1.500X3000W M Delrin Bar, White	MDELRINR4.000W	
Terms				
Rel	to a	La	-20	
Line Item No	23	87	F 29	
PO No Supplier Item No No No No				
PO No				

Print

6/25/2018

Plex 6/25/2018 2:00 PM dart. Tollis. Andrew



### Packing List

200 Aurora Industrial Pkwy Aurora OH 44202-8087 330-995-5500 cle sales@mcmaster.com

Dart Aerospace Ltd 1270 Aberdeen St Hawkesbury ON K6A 1K7 Canada

Purchase Order PO0402145

Order Placed By Chantal Lavoie Page 1 of 2 06/15/2018

McMaster-Carr Number 5060725-01

	Li	ine	Product 50	060725-01	
	ζ	3555T5	1 Galvanized Steel Sofation: 0	Ordered	Shipped
			1 Galvanized Steel Safety-Pin Shackle - for Lifting, 1/2" Thick	_ 4	4
	2	90905A	673 316 Stainless Steel Split Ring, 1-1/16" OD, Packs of 10	Each	
	^			1 Pack	1
	3	1217T24	Fatigue-Resistant 301 Stainless Steel Sheet, 12" x 36", 1/4 Hard Temper, 0.04	12" Thick 1	Wasa V
	4	8739K4		Each	1000 W
			White Delrin® Acetal Resin Oversized Bar, 3/4" Thick, 3" Wide, 4' Length	_ 4	4
	5	8576K13	Black Delrin® Acetal Resin Rod, 3/8" Diameter, 5 Feet Long	Feet	
	6	00471604		5 Feet	5
	U	9017K94	Low-Carbon Steel 90 Degree Angle, 1/2" Wall Thickness, $5" \times 5"$ Outside Size, Length	3 ft. 1	4
	7	8569K23		Each	1000
			Film Made From Teflon PTFE, 6" Wide, 0.02" Thick, 2' Length	_ 2	2
	8	92620A59	22 Zinc Yellow-Chromate Plated Hex Head Screw, Grade 8 Steel, 5/8"-18 Thread 5 2-1/4" Long, Packs of 1	Feet	
				Size, 12 Packs	12
,	0	649 IA462	Press-Fit Drill Bushing, 0.5" ID, 3/4" OD, 1" Long	12	12
	10	96 <b>54</b> K193	Steel Extension Spring Loop Ends Zins Black		12
			Steel Extension Spring, Loop Ends, Zinc-Plated, Tempered, 4.79" Extended Len Packs of 3		4
1	1 9	91259A812	2 Alloy Steel Shoulder Screw, 5/8" Diameter 4-1/2" Long Shoulder, 1/2"-13 Thread	Packs	
				12 Each	12
		707000	3 18-8 Stainless Steel Dowel Pin, 3/16" Diameter, 3/8" Long, Packs of 20	. 1	1
	3 9	1247A449	Medium-Strength Grade 5 Steel Hex Head Screw, Zinc-Plated, 5/8"-18 Thread Si 5-1/2" Long, Partially Threaded, Packs of 1	Pack	•
				<b>n</b> .	12
2	1 9	1257A758	Zinc Yellow-Chromate Plated Hex Head Screw, Grade 8 Steel, 1/2"-20 Thread, 5-Long, Partially Threaded, Packs of 1	1/2"	
5				D 1	12
		-, -, 1000	18-8 Stainless Steel Hex Drive Flat Head Screw, 10-32 Thread Size, 5/8" Long, P.	acks of 1	1
6	63	881K193	Multipurpose SAE 660 Leaded Bronze Sleeve Bearing for 3/4" Shaft Diameter and	Pack	
				F	20
7	91	102A750	Zinc-Plated Steel Split Lock Washer for 1/4" Screw Size, 0.26" ID, 0.487" OD, Paci 100	Each	
3				Doole	1
,	UBI	01N14 E	Brass Submersible Cord Grip, NPT Thread, for 0.24"-0.47" Cord OD, 1/2 Knockout	Size 20	20
)	300		dardened Undersized High-Speed M2 Tool Steel Rod, 0.15" Diameter, 3" Long	Each	20
			Long	10 Each	10
				Lacii	

### Packing Lis

200 Aurora Industrial Pkwy Aurora OH 44202-8087 330-995-5500 cle.sales@mcmaster.com

Dart Aerospace Ltd 1270 Aberdeen St Hawkesbury ON K6A 1K7 Canada

Purchase Order P00402145

Order Placed By Chantal Lavoie

McMaster-Carr Number 5060725-01

Page 2 of 2 06/15/2018

Li	ne	Product 500	60725-01		
21	2000700			Ordered	Shipped
	3869T62 5274T761	Compression Ball with Shank End Fitting for 3/32" Wire Rope Diameter - Not f		80 Each	80
23		order Hastic Vials with Fight Fitting Lid, 1.94oz./ 55 ml Capacity, Packs o		4 Packs	4
24	2014111	Adjustable Pin Spanner Wrench for Holes on The Face for 5/8" to 2" Circle Dia	meter	20 Each	20
	8733K67	Off-White Nylon Bar, 3" Wide, 1" Thick, 4' Length		4 Feet	Freid
25		Zinc Yellow-Chromate Plated Hex Head Screw, Grade 8 Steel, 1/2"-20 Thread Long, Partially Threaded, Packs of 1		10 Packs	10
26	91074A131	Zinc-Flake-Coated Steel Wedge Lock Washer for 3/8" Screw Size, 0.41" ID, 0.6 Packs of 20	\$5" OD,	1 Pack	1
27	8739K61	White Delrin® Acetal Resin Oversized Bar, 1-1/4" Thick, 3" Wide, 4' Length		8 Feet	انم
28	8739K67	White Delrin® Acetal Resin Oversized Bar, 1-1/2" Thick, 3" Wide, 4' Length		8	84
29	8572K36	White Delrin® Acetal Resin Rod, 4" Diameter, 5' Length		Feet 5	5
				Feet	

Expected	to	ship
	-	p

19	85195A999 Giant Swiss Arm Only, 19" Total Height #16823		
	5, 13, 110, 13, 110, 123	1 Each	<b>1</b> Jun 22-28

McMaster-Carr Supply Company Invoice: 65507950 ORIGINAL COMMERCIAL 200 Aurora Industrial Pkwy Purchase Order: PO0402145 44202-8087 USA Aurora, OH INVOICE Phone: 330-995-5500 Fax: 330-995-9600 Release: E-Mail: cle.sales@mcmaster.com McMaster-Carr Number: 5060725-01 Employer Identification Number (EIN): 36-1458720 CERTIFICATE OF ORIGIN Ultimate Destination: Shipped: 15-Jun-2018 Dart Aerospace Ltd 1270 Aberdeen St Shipper's Export Declaration (SED): Hawkesbury ON K6A 1K7 NO EEI 30.36 Canada Intermediate Consignee: Bill To: Dart Aerospace Ltd 1270 Aberdeen St Hawkesbury ON K6A 1K7 Canada Tax Number: Forwarding Agent: Billing Attention: Shipping Attention: Contact: Description Line Qty & Unit Unit Price Extension Galvanized Steel Safety-Pin Shackle - for Lifting, 1/2" Thick 1 3555T51 4 EA \$36.52 \$146.08 Country of Origin: United States Schedule B #: 732690 ECCN#: EAR99 NLR 316 Stainless Steel Split Ring, 1-1/16" OD, Packs of 10 2 90905A673 PK \$6.57 \$6.57 Country of Origin: United States Schedule B #: 732690 ECCN#: EAR99 NLR Fatigue-Resistant 301 Stainless Steel Sheet, 12" x 36", 1/4 Hard Temper, 0.042" 3 1217T24 EA \$68.84 \$68.84 Thick Country of Origin: Taiwan Schedule B #: 722020 ECCN #: 2B999 NLR White Delrin® Acetal Resin Oversized Bar, 3/4" Thick, 3" Wide, 4' Length 4 8739K45 4 FT \$24.16 \$96.64 Country of Origin: United States Schedule B #: 392099 ECCN#: EAR99 NLR Black Delrin® Acetal Resin Rod, 3/8" Diameter, 5 Feet Long 5 8576K13 5 FT \$0.74 \$3.70 Country of Origin: United States Schedule B #: 391690 ECCN#: EAR99 NLR Your order is subject only to our terms and conditions, available at www.mcmaster.com or from our Sales Department. Shipping Weight (in kgs): 107 Number of Packages: 1 Invoice Amounts: Merchandise Amount: \$3,009.20 Canadian GST/HST: Package Dimensions: \$391.21 Total (In USD): \$3,400.41 Payment Terms: 2% discount on merchandise only if paid within 10 days, net 30 days Remit payment to: (by wire transfer) Bank of America (by mail) 222 Broadway Authorized Signature: Date: McMaster-Carr Supply Company New York, NY 10038 Sal Weice-15-Jun-2018 PO Box 7690 Account 86666-02021 Chicago, IL 60680-7690 USA SWIFT BOFAUS3N

Page 1 of 4

Name: Sarah Weinberg

Title:

Operations Mgr.

McMaster-Carr Supply Company 200 Aurora Industrial Pkwy 44202-8087 USA Aurora, OH

Phone: 330-995-5500 E-Mail: cle.sales@mcmaster.com Fax: 330-995-9600

Purchase Order: PO0402145

Invoice: 65507950

Release:

ORIGINAL COMMERCIAL

Embi	loyer Identifica	ation Number (EIN): 36-1458720	McMaster-Carr Number: 506072	25-01		CERTIFICA	ATE OF ORIGI
ine	Description			Qty 8	& Unit	Unit Price	Extension
5	9017K94 Low-Carbon Steel 90 Degree Angle, 1/2" Wall Thickness, 5" x 5" Outside Size, 3 ft. Length				EA	\$85.51	\$85.51
		Country of Origin: United States Schedule B #: 721640 ECCN #: EAR99 NLR					
•	8569K23	Film Made From Teflon PTFE, 6" Wide, 0.02" Thick	k, 2' Length	2	FT	\$5.72	\$11.44
		Country of Origin: United States Schedule B #: 392010 ECCN #: EAR99 NLR					
	92620A592	Zinc Yellow-Chromate Plated Hex Head Screw, Gr Size, 2-1/4" Long, Packs of 1	ade 8 Steel, 5/8"-18 Thread	12	PK	\$7.96	\$95.52
		Country of Origin: Taiwan Schedule B #: 731815 ECCN #: EAR99 NLR					
	8491A462	Press-Fit Drill Bushing, 0.5" ID, 3/4" OD, 1" Long		12	EA	\$7.83	\$93.96
		Country of Origin: United States Schedule B #: 846620 ECCN #: EAR99 NLR					
)	9654K193	Steel Extension Spring, Loop Ends, Zinc-Plated, Te Length, Packs of 3	empered, 4.79" Extended	4	PK	\$5.04	\$20.16
		Country of Origin: United States Schedule B #: 732020 ECCN #: EAR99 NLR					
	91259A812	Alloy Steel Shoulder Screw, 5/8" Diameter 4-1/2" L.	ong Shoulder, 1/2"-13 Thread	12	EA	\$8.17	\$98.04
		Country of Origin: United States Schedule B #: 731815 ECCN #: EAR99 NLR					
	90145A503	18-8 Stainless Steel Dowel Pin, 3/16" Diameter, 3/8	3" Long, Packs of 20	1	PK	\$4.72	\$4.72
		Country of Origin: United States Schedule B #: 731829 ECCN #: EAR99 NLR					
	91247A449	Medium-Strength Grade 5 Steel Hex Head Screw, 2 Size, 5-1/2" Long, Partially Threaded, Packs of 1	Zinc-Plated, 5/8"-18 Thread	12	PK	\$2.53	\$30.36
		Country of Origin: Canada Schedule B #: 731815 ECCN #: EAR99 NLR					
	91257A758	Zinc Yellow-Chromate Plated Hex Head Screw, Gra 5-1/2" Long, Partially Threaded, Packs of 1	de 8 Steel, 1/2"-20 Thread,	12	PK	\$3.00	\$36.00
		Country of Origin: United States Schedule B #: 731815 ECCN #: EAR99 NLR					
	92210A303	18-8 Stainless Steel Hex Drive Flat Head Screw, 10 Packs of 100	9-32 Thread Size, 5/8" Long,	1	PK	\$8.06	\$8.06
		Country of Origin: Taiwan Schedule B #: 731815 ECCN #: EAR99 NLR					
	6381K193	Multipurpose SAE 660 Leaded Bronze Sleeve Beari and 1" Housing ID, 1-1/4" Long	ing for 3/4" Shaft Diameter	20	EA	\$3.68	\$73.60
		Country of Origin: United States Schedule B #: 848330 ECCN #: EAR99 NLR					

McMaster-Carr Supply Company 200 Aurora Industrial Pkwy

Aurora, OH 44202 **Phone:** 330-995-5500 44202-8087 USA

Fax: 330-995-9600

E-Mail: cle.sales@mcmaster.com Employer Identification Number (EIN): 36-1458720

Purchase Order: PO0402145

Invoice: 65507950

Release:

McMaster-Carr Number: 5060725-01

### ORIGINAL COMMERCIAL INVOICE

**CERTIFICATE OF ORIGIN** 

Line	Description		Qtv	& Unit	Unit Price	Extension
17	91102A750	Zinc-Plated Steel Split Lock Washer for 1/4" Screw Size, 0.26" ID, 0.487" OD, Packs of 100	1	PK	\$1.13	\$1.13
		Country of Origin: United States Schedule B #: 731821 ECCN #: EAR99 NLR				
18	6907K14	Brass Submersible Cord Grip, NPT Thread, for 0.24"-0.47" Cord OD, $1/2$ Knockout Size	20	EA	\$10.30	\$206.00
		Country of Origin: Germany Schedule B #: 741999 ECCN #: EAR99 NLR				
20	3009A237	Hardened Undersized High-Speed M2 Tool Steel Rod, 0.15" Diameter, 3" Long	10	EA	\$2.49	\$24.90
		Country of Origin: United States Schedule B #: 722810 ECCN #: EAR99 NLR				
21	3869T62	Compression Ball with Shank End Fitting for 3/32" Wire Rope Diameter - Not fo Lifting	r 80	EA	\$1.74	\$139.20
		Country of Origin: United States Schedule B #: 732690 ECCN #: EAR99 NLR				
22	5274T761	Semi-Clear Plastic Vials with Tight Fitting Lid, 1.9 oz./ 55 ml Capacity, Packs of	5 4	PK	\$8.72	\$34.88
		Country of Origin: United States Schedule B #: 392330 ECCN #: EAR99 NLR				
23	5481A1	Adjustable Pin Spanner Wrench for Holes on The Face for 5/8" to 2" Circle Diameter	20	EA	\$28.69	\$573.80
		Country of Origin: United States Schedule B #: 820412 ECCN #: EAR99 NLR				
24	8733K67	Off-White Nylon Bar, 3" Wide, 1" Thick, 4' Length	4	FT	\$31.28	\$125.12
		Country of Origin: United States Schedule B #: 392092 ECCN #: EAR99 NLR				
25	91257A755	Zinc Yellow-Chromate Plated Hex Head Screw, Grade 8 Steel, 1/2"-20 Thread Size, 5" Long, Partially Threaded, Packs of 1	10	PK	\$2.31	\$23.10
		Country of Origin: Canada Schedule B #: 731815 ECCN #: EAR99 NLR				
6	91074A131	Zinc-Flake-Coated Steel Wedge Lock Washer for 3/8" Screw Size, 0.41" ID, 0.65" OD, Packs of 20	1	PK	\$12.38	\$12.38
		Country of Origin: Sweden Schedule B #: 731821 ECCN #: EAR99 NLR				
7	8739K61	White Delrin® Acetal Resin Oversized Bar, 1-1/4" Thick, 3" Wide, 4' Length	8	FT	\$33.89	\$271.12
		Country of Origin: United States Schedule B #: 392099 ECCN #: EAR99 NLR				
8	8739K67	White Delrin® Acetal Resin Oversized Bar, 1-1/2" Thick, 3" Wide, 4' Length	8	FT	\$40.24	\$321.92
		Country of Origin: United States Schedule B #: 392099 ECCN #: EAR99 NLR				
umb	er of Package:	s: 1			Page 3	of 4

McMaster-Carr Supply Company 200 Aurora, Industria! Pkwy Aurora, OH 44202-808 **Phone:** 330-995-5500 44202-8087 USA

E-Mail: cle.sales@mcmaster.com Employer Identification Number (EIN): 36-1458720

Fax: 330-995-9600

Purchase Order: PO0402145

Invoice: 65507950

Release:

McMaster-Carr Number: 5060725-01

ORIGINAL COMMERCIAL INVOICE

CERTIFICATE OF ORIGIN

Line	Description		Qty & Unit	Unit Price	Extension
29	8572K36	White Delrin® Acetal Resin Rod, 4" Diameter, 5' Length	5 FT	\$79.29	\$396.45
		Country of Origin: United States Schedule B #: 391690			
		ECCN #: EAR99 NLR			
	NOTE	These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or			
		end-user(s) herein identified. They may not be resold, transferred or otherwise			
		disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being			
		incorporated into other items, without first obtaining approval from the U.S. government or as otherwise authorized by U.S. law and regulations.			
	NOTE	Tracking number(s) for this shipment:			
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umb	er of Package:	s: 1		Page 4	- F A



Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada

### **PURCHASE ORDER** PO040214

Tel (613) 632-5200

Supplier: MCM001-VU

Ship To:

McMaster-Carr Supply Co,

P.O. Box 7690

Chicago, IL 60680-7690 USA

Phone: 330 995 5500

Fax: 330 995 9600

1270 Aberdeen Street

Hawkesbury

ON

K6A 1K7 Canada

Phone: 613-632-5200

PO No:

PO040214

PO Date:

6/15/18

Due Date:

6/20/18

**Purchase Order** 

Revision:

**Revision Date:** 

Ship-To Contact:

Lavoie, ChantalPhone:

clavoie@dartaero.com

Via:

Ground

**Pymt Terms:** 

2% 10 Net 30

Freight Terms: **Special Comments:** 

Line			Supplier		T	Due	Order	Received	l	Unit	Extended
Item	Job	Part	Part No	Description	Status	Date	Quantity		Balance	Price (USD)	Price
1	To company to the company of the com	3555T51	O to make the state of the state of	Shakcle 1/2", 4400 Lbs	Firmed	6/20/18	4 Ea	0 Ea	4 Ea	\$36.52/Ea	\$146.08
2		90905A673	10/pk	Split Ring, Ø1-1/16 OD x Ø15/16 ID x 1/8 receive ea		6/20/18	10 Ea	0 Ea	10 Ea	\$0.657/Ea	\$6.57 /22
3 /M	The state of the s	M301S20GA	1217T24 3 SF	M301S20GA : MATERIAL: AISI 301 SS SHEET MINIMUM 1/4 HARDNESS (NOT ANNEALED) 2B FINNISH AS PER AMS 5517/AMS 5518/AMS 5519 OR ASTM A666 WHIT MIN. FTU = 125 KSI & MIN FTY = 75 KSI receive sf	Firmed	6/20/18	3 sf	0 sf	3 sf	\$22.946666/sf	
4 / M	and the second s	MDELRINB0.750X3.000W	8739K45	M Delrin Bar, White : MATERIAL: DELRIN II 150E OR ACETRON GP ACETAL receive ft	Firmed	6/20/18	4 ft	0 ft	4 ft	\$24.16/ft AV 18/042	\$96.64

	_			Iten	15						
Line Item	Job	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity		Unit Price (USD)	Extende Price
5 V	-	MDELRINR0.375	8576K13 5 ft	M Delrin Round Bar, Black	Firmed	6/20/18	5 ft	5St of	5 ft	\$0.74/ft H (8/06)	
6		9017K94	3 ft long	Low-Carbon Steel 90 Degree Angle, 1/2"thk 5x5 outside	Firmed	6/20/18	3 ft	0 ft	3 ft	\$28.50333/ft A(18/06)	\$85.5
7		8569K23	6" x 2 ft	Teflon PTFE Plastic 0.020" receive ea	Firmed	6/20/18	1 sf	0 sf	1 sf	\$11.45/sf H 18/01	\$11.4
e Item Note	1 PC	S OF 6" X 2 FT		A service processors and the service of			W. C. (Marrier) (1994)	- A - Marine, and - 1 - 1 - 1 - 1 - 1			0 too #10 1 50
8		20NR-13	92620A592 1/PK	Funnel Rail Bolt	Firmed	6/20/18	12 Ea	0 Ea	12 Ea	\$7.96/Ea	\$95.5
9		20NR-38	8491A462 1/PK	Keeper Bushing	Firmed	6/20/18	12 Ea	0 Ea	12 Ea	\$7.83/Ea	\$93.9
10		20NR-39	9654K193 3/pk	Keeper Spring	Firmed	6/20/18	12 Ea	0 Ea	12 Ea	\$1.68/Ea	\$20.1
11		20NR-47	91259A812 1/PK	Shoulder Bolt 5/8 x 4 1/2	Firmed	6/20/18	12 Ea	0 Ea	12 Ea	\$8.17/Ea	\$98.0
12		20NR-06	90145A503 20/PK	Solenoid Locating Pin	Firmed	6/20/18	20 Ea	0 Ea	20 Ea	\$0.236/Ea	\$4.7
13	ļ	20NR-74	91247A449 1/PK	Bolt 5 1/2 x 5/8	Firmed	6/20/18	12 Ea	0 Ea	12 Ea	\$2.53/Ea	\$30.3
14		20NR-112	91257A758 1/pk	Sideplate Protector Bolt	Firmed	6/20/18	12 Ea	0 Ea	12 Ea	\$3.00/Ea	\$36.0
15		92210A303	100/pk	Flat Socket Cap Screw	Firmed	6/20/18	100 pcs	0 pcs	100 pcs	\$0.0806/pcs	\$8.0
16		6381K193	1/pk	Bushing receive pcs	Firmed	6/20/18	20 pcs	0 pcs	20 pcs	\$3.68/pcs	\$73.6
17		C10-21-4	91102A750 100/pk	Lock Washer	Firmed	6/20/18	100 Ea	0 Ea	100 Ea	\$0.0113/Ea	\$1.1
18		C10-41	6907K14 1/pk	Stain Relief Connector	Firmed	6/20/18	20 Ea	0 Ea	20 Ea	\$10.30/Ea	\$206.0
19	Type in manager and community	16823		Giant Swiss Arm w/o Mag. Base	Firmed	6/29/18	1 Ea	0 Ea	1 Ea	\$435.76/Ea	\$435.7
20	And Application of the Control of th	3009A237	3" long	Pin	Firmed	6/20/18	10 Ea	0 Ea	10 Ea	\$2.49/Ea	\$24.9
21		3869T62	1/pk	Ball w/Shank Swage Fitting receive ea	Firmed	6/20/18	80 Ea	0 Ea	80 Ea	\$1.74/Ea	\$139.2
22		5274T761	5/pk	Polypropylene Vial for Flange Wrench Bolts receive ea	Firmed	6/20/18	20 Ea	0 Ea	20 Ea	\$1.744/Ea	\$34.8

						IS	Iten			-	
Extende Price	Unit Price (USD)		Received Quantity	Order Quantity	Due Date	Status	Description	Supplier Part No	Part	Job	Line Item
\$573.	\$28.69/Ea	20 Ea	0 Ea	20 Ea	6/20/18	Firmed	Adjustable Spanner receive ea	1/pk	5481A1		23
\$125. Q5	\$31.28/ft \$\frac{1}{8}/06/	4 ft	4 ft	4 ft	6/20/18	Firmed	Off White Nylon Bar 1" Thick, 3" Wide	4 ft long	8733K67	in Arten Virelin/Viren remains, circl in	24
\$23.	\$2.31/Ea	10 Ea	0 Ea	10 Ea	6/20/18	Firmed	Bolt	1/pk	91257A755		25
\$12.3	\$0.619/Ea	20 Ea	0 Ea	20 Ea	6/20/18	Firmed	Washer, Cage Bumper	91074A131 20/pk	C45-15-12		26
	\$33.89/ft Al 1049	8 ft	840th	8 ft	6/20/18	Firmed	M Delrin Bar, White receive ft	8739K61 4 FT	MDELRINB1.250X3.000W		27 /
7,	\$40.24/ft A 18/04/	8 ft	800 ft	8 ft	6/20/18	Firmed	M Delrin Bar, White	8739K67 4 FT	MDELRINB1.500X3000W		28 /M
\$396.4	\$79.29/ft (X 18/06/3	5 ft	SH Of	5 ft	6/20/18	Firmed	M-Delrin Round Bar, White	8572K36	MDELRINR4.000W		29
\$2 AAA 0	Grand Total:		jj	1		l	Law Million - The Control of Control		en la companya de la	1	CATALOG CONTRACTOR

### **Order Notes**

**Procurement Quality Clauses** 

A005 RIGHT OF ENTRY

A016 PERSONNEL QUALIFICATION

A026 CERTIFICATION OF MATERIAL CONFORMANCE

A032 DOCUMENT SPECIAL REQUIREMENTS

A033 STATEMENT OF CONFORMITY/TEST RECORDS FOR NAS, AN and MS FASTENERS

A040 NOTIFICATION OF QUALITY ESCAPE

A041 QUALITY MANAGEMENT SYSTEM

A042 DART NOTIFICATION BY SUPPLIER

A043 RETENTION OF QUALITY DOCUMENTS

A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM

A049 SUPPLIER AWARENESS

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 6/15/18 12:45 PM dart.lavoie.chantal

### McMASTER-CARR.

6/22/2018

## White Delrin® Acetal Resin Rod

4" Diameter

In stock \$79.29 per ft. 8572K36



Material	Delrin® Acetal Plastic
Cross Section Shape	Round
Construction	Solid
Texture	Smooth
Color	White
Clarity	Opaque
Diameter	4"
Diameter Tolerance	0" to +0.250"
Tolerance Rating	Oversized
Length	1 ft., 2 ft., 3 ft., 4 ft., 5 ft.
Hardness	Rockwell M90
Hardness Rating	Hard
For Use Outdoors	NO
Temperature Range	-20° to 180° F
Impact Strength	1.00 ftlbs./in.
Impact Strength Rating	Good
Tensile Strength	9,000 psi
Tensile Strength Rating	Good
Specifications Met	ASTM D6100, NSF/ANSI Standard 51 for Food Contact, NSF/ANSI Standard 61 for Drinking Water
Density	0.051 lbs./cu. in.
Coefficient of Friction	0.20
Dielectric Strength	435 V/mil
Water Absorption	0.30%
Coefficient of Thermal Expansion	$8.5 \times 10^{-5} \text{ in./in./}^{\circ}\text{F}$
RoHS	Compliant

SPECIFICATION CONTROL DRAWING

0

PURCHASE MATERIAL (DELRIN)1 150E OR ACETRON GP ACETAL

PART NUMBER:

M-DELRIN-R D.DDD X B

U

WHERE D.DDD = DIAMETER IN INCHES /8 X = COLOR CODE, "W" = WHITE, OMITTED = BLACK

EG. 1" BLACK ROUND BAR = M-DELRIN-R1,000 2" WHITE ROUND BAR = M-DELRIN-R2,000W

17.10.19 01.11,12 SAD DART AEROSPACE LTD
SAD HAWKESBURY, ONTARO, CANADA
RF DRAWING NO.
RA M-DELRIN-R SHEET 1
HS TITLE
SC 47 DELRIN ROUND BAR SAD 85 PS B MATERIAL COLOR "WHITE" ADD REASON CIR-110. ADD "ACETRON GP ACETAL" AS OPTION (REV. A1). A NEWISSUE
REV. SAD
DESIGN SAD
DRAWN SAD
CHECKED R
MEG. APPR. RA
APPROVED HS
DE APPR. CP
DATE 17.10.19

REV. B SHEET 10F1

NTS

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The resiliant property and supplies to the construction of the cons

APPROVED EN 18-697

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### MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MUEL	(R)	NR	4.000W			PO / BATO	CH NO.:	PODY	0214/508	339
DATE: 18(06)	21								,	_
MATERIAL CERT REC'D:  QUANTITY RECEIVED:  QUANTITY INSPECTED:  QUANTITY REJECTED:					THIC	CKNESS ORI CKNESS REC ET SIZE ORI	EIVED: DERED:	-	000	-
QUANTITY REJECTED:				-	SHE	ET SIZE REC	EIVED:			
DESCRIPTION	(CI	CR neck /N)				COMME	NTS			
SURFACE DAMAGE	Υ	TW								
CORRECT FINISH	Y	N								
CORROSION	Y	(N)								
CORRECT GRAIN DIRECTION	8	N	00/0							
CORRECT MATERIAL PER M-DRAWING CORRECT THICKNESS	(Y)	N	DELR	IN						
PHOTO REQUIRED	Ÿ	N								
CORRECT REF # TO LINK CERT	(V)	W	62048	9411/						
CORRECT MATERIAL IDENTFICATION		N	20010	119						
CORRECT M# ON THE MATERIAL	M	N								
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	(Z)								
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ									
CUT SAMPLE PIECE			ERIAL A				ESS CI	HECK.		
			HRC	HR		DUR A	T DI	JR D	MERCTER	
TYPE OF MATERIAL					_	DONA	1 -		WEBSTER	
SIZE OF TEST SAMPLE							1			
HARDNESS / DUROMETER READIN										
	<u>te</u>	sters	located in	the Quali	ty Offic	e				
C 18 INSPECTION				100		ENGINEE	RING	SIGNOE	F (if required)	
Λ -	, C.				The State of	LITOINEL			(ir required)	
INSPECTED BY:	C)				SIGN	IED OFF BY	<b>'</b> :			
DATE: 18/86/22	9-89									
						DATE			4	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

DATE:

DATE: 18/86/21989

### McMASTER-CARR.

6/22/2018

## White Delrin® Acetal Resin Oversized Bar 1-1/2" Thick, 3" Wide

In stock \$42.66 per ft. 8739K67



Material	Delrin® Acetal Plastic
Cross Section Shape	Rectangle
Construction	Solid
Texture	Smooth
Color	White
Clarity	Opaque
Thickness	1 1/2"
Thickness Tolerance	0" to +0.025"
Tolerance Rating	Oversized
Width	3"
Width Tolerance	0" to +1/4"
Length	1ft., 2ft., 3ft., 4ft.
Backing Type	Plain
Hardness	Rockwell M90
Hardness Rating	Hard
For Use Outdoors	ON
Temperature Range	-20° to 180° F
Impact Strength	1.00 ftlbs./in.
Impact Strength Rating	Good
Tensile Strength	9,000 psi
Tensile Strength Rating	Good
Specifications Met	ASTM D6100, Made of FDA Listed Material, NSF/ANSI Standard 51 for Food Contact, NSF/ANSI Standard 61 for Drinking Water
Density	0.051 lbs./cu. in.
Coefficient of Friction	0.20
Dielectric Strength	435 V/mil

## White Delrin® Acetal Resin Oversized Bar, 1-1/2" Thick, 3" Wide | McMaster-Carr

6/22/2018

Water Absorption	0.30%	
Coefficient of Thermal Expansion	$8.5 \times 10^{-5} \text{ in./in./}^{9}\text{F}$	
RoHS	Compliant	

These sheets, bars, and strips are made of Delrin® acetal resin, a wear-resistant material with a naturally slippery surface. Also known as acetal homopolymer, it resists moisture and has the ability to hold tight tolerances. It's often used for gears, bushings, and bearings.





DESIGN	DRAWN BY	DART AEROSPA HAWKESBURY, ONTARIO	
CHECKE	D APPROVED	DRAWING NO.	REV. A
	M N	M- DELRIN-B	SHEET   OF
DATE		TITLE	SCALE
0	2.04.30	DELRIN BAR	NTS
A	02.04.30	NEW ISSUE	
AI	02.06.04	OP ADD "ACETYON OF ACETAL"	AS OPPON

PURCHASE MATERIAL:

DELRIN II ISOE OR ACETRON GO ACETAL

PART NUMBER:

M- DELRIN - B T. TTT | X | WW. MANN WHERE T. TTT = THICKNESS (IN INCHES) WW.WMW = WIDTH (IN INCHES) THICK WIOTH

EG. 0.5" x 1.0" BAR = M-DELRIN-BO.500 x 01.000



### MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MI)EL DATE: (8/06	<sub>2</sub> อฟ	PO / BATCH NO .: (20040214/5093)							
MATERIAL CERT REC'D:  QUANTITY RECEIVED:  QUANTITY INSPECTED:  QUANTITY REJECTED:				-	THIC	CKNESS ORDE CKNESS RECEI ET SIZE ORDE ET SIZE RECEI	VED: _ RED: _	1-50	00"
DESCRIPTION	(Ch	CR neck (N)		<i>i</i>		COMMEN <sup>*</sup>	TS		
SURFACE DAMAGE	Υ	W							
CORRECT FINISH	8	N			6.70				
CORROSION	Υ	0							_
CORRECT GRAIN DIRECTION	8	N							
CORRECT MATERIAL PER M-DRAWING	Y	N	DELR	IN	3337 - 51				
CORRECT THICKNESS	E	N							
PHOTO REQUIRED	Υ	(N)		**					
CORRECT REF # TO LINK CERT	(X)	N	PD091	1214					
CORRECT MATERIAL IDENTFICATION	(A)	N							
CORRECT M# ON THE MATERIAL	Y	N	300						
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	M	-						
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	N	3,500						
CUT SAMPLE PIECE							SS CF	IECK.	
			ORD RES						
TVDE OF MATERIAL			HRC	HR	R	DUR A	DL	JR D	WEBSTER
TYPE OF MATERIAL									
SIZE OF TEST SAMPLE									
HARDNESS / DUROMETER READII									
	<u>te</u>	sters	located in	the Qual	ty Offic	<u>e</u>			

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: AT 9	SIGNED OFF BY:
DATE: 18/06/22	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

### McMASTER-CARR.

6/22/2018

## White Delrin® Acetal Resin Oversized Bar

In stock \$35.93 per-ft. 8739K61

1-1/4" Thick, 3" Wide



	(
Material	/ Delrin® Acetal Plastic
Cross Section Shape	Rectangle
Construction	Solid
Texture	Smooth
Color	White
Clarity	Opaque
Thickness	1 1/4"
Thickness Tolerance	0" to +0.025"
Tolerance Rating	Oversized
Width	3
Width Tolerance	0" to +1/4"
Length	1ft,,2ft.,3ft.,4ft.
Backing Type	Plain
Hardness	Rockwell M90
Hardness Rating	Hard
For Use Outdoors	No
Temperature Range	-20° to 180° F
Impact Strength	1.00 ftlbs./in.
Impact Strength Rating	900g
Tensile Strength	9,000 psi
Tensile Strength Rating	Good
Specifications Met	ASTM D6100, Made of FDA Listed Material, NSF/ANSI Standard 51 for Food Contact, NSF/ANSI Standard 61 for Drinking Water
Density	0.051 lbs./cu. in.
Coefficient of Friction	0.20
Dielectric Strength	435 V/mil

# White Delrin® Acetal Resin Oversized Bar, 1-1/4" Thick, 3" Wide | McMaster-Carr

6/22/2018

Water Absorption	0.30%	
Coefficient of Thermal Expansion	8.5 × 10 <sup>-5</sup> in./in./°F	
RoHS	Compliant	

These sheets, bars, and strips are made of Delrin® acetal resin, a wear-resistant material with a naturally slippery surface. Also known as acetal homopolymer, it resists moisture and has the ability to hold tight tolerances. It's often used for gears, bushings, and bearings.





DESIGN	#	DRAWN BY	DART AEROSPAG HAWKESBURY, ONTARIO,	
CHECK	P	APPROVED	DRAWING NO.  M- DELRIN-B	REV. A
DATE	2.04.3	0	TITLE DELRIN BAR	SCALE NTS
A	02.04	f-30 .	NEW ISSUE	
Ai	02.00	5.04 -1 (	P ADD "ACETRON OF ACETAL"	AS OPTION

PURCHASE MATERIAL:

DELRIN II ISOE OR ACETRON GP ACETAL

PART NUMBER:

M-DELRIN-BT.TTT X WW.MWW WHERE T.TTT = THICKNESS (IN INCHES)
THICK WIOTH WIOTH WIOTH (IN INCHES)

EG. 0.5" x 1.0" BAR = M-DELRIN-BO.500 x 01.000



### MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MDEL DATE: (8/04)		B1.	250×3.000W	PC	) / BATCH N	10.: Poots	244/508339
MATERIAL CERT REC'D:  QUANTITY RECEIVED:  QUANTITY INSPECTED:  QUANTITY REJECTED:				SHEET SI	ZE ORDER		.0 ·1
DESCRIPTION	(Ch	CR neck (N)		C	OMMENTS	S	
SURFACE DAMAGE	Y	(N)	100.00		· · · · · · · · · · · · · · · · · · ·		
CORRECT FINISH	(Y)	N				·	
CORROSION	Y	()					
CORRECT GRAIN DIRECTION	(Ý)	N					
CORRECT MATERIAL PER M-DRAWING	Y	N	DELRIN				1
CORRECT THICKNESS	Y	N					
PHOTO REQUIRED	Y	(N)	0				
CORRECT REF # TO LINK CERT	Y	N	10040214				
CORRECT MATERIAL IDENTFICATION	(Y)	N					
CORRECT M# ON THE MATERIAL	M	N					
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	N					
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	0		1975 - 100 -			
			avie				
CUT SAMPLE PIECE	OF	MAT	TERIAL AND PRI	EFORM A I	HARDNES	S CHECK	
			ORD RESULTS E			- 5,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	- 2.77		HRC HR		OUR A	DUR D	WEBSTER
TYPE OF MATERIAL							
SIZE OF TEST SAMPLE							
HARDNESS / DUROMETER READIN	NG	THE RESERVE					
		sters	located in the Qual	ity Office		1,4 (110)	
	_						

QC 18 INSPECTION	BEST SERVICE	SELECTION OF STREET	ENGINEERING SIGNOFF (if required)
INSPECTED BY:	A	DAS 9	SIGNED OFF BY:
DATE:	(8/06/22	9-89	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

### McMASTER-CARR.

6/22/2018

## Black Delrin® Acetal Resin Rod

3/8" Diameter, 5 Feet Long

\$0.74 per ft. of 5 8576K13



Material	Delring Acetal Plastic
Cross Section Shape	Round
Construction	Solid
Texture	Smooth
Color	Black
Clarity	Opaque
Diameter	3/8"
Diameter Tolerance	0" to +0.005"
Tolerance Rating	Oversized
Length	5 ft.
Hardness	Rockwell M90
Hardness Rating	Hard
For Use Outdoors	No
Temperature Range	-20° to 180° F
Impact Strength	1.00 ftlbs./in.
Impact Strength Rating	Good
Tensile Strength	9,000 psi
Tensile Strength Rating	Good
Specifications Met	ASTM D6100
Density	0.051 lbs./cu. in.
Coefficient of Friction	0.20
Dielectric Strength	435 V/mil
Water Absorption	0.30%
Coefficient of Thermal Expansion	$8.5 \times 10^{-5} \text{ in./in./}^{\circ}\text{F}$
RoHS	Compliant

SPECIFICATION CONTROL DRAWING

0

PURCHASE MATERIAL ( DELRIN)I 150E OR ACETRON GP ACETAL

PART NUMBER:

M-DELRIN-R D.DDD X COLOR B CODE

WHERE D.DDD = DIAMETER IN INCHES B X = COLOR CODE, "W" = WHITE, OMITTED = BLACK

U

EG. 1" BLACK ROUND BAR = M-DELRIN-R1.000 2" WHITE ROUND BAR = M-DELRIN-R2.000W

REV. B SHEET 1 OF 1 DS 01.11,12 BY DATE 17.10.19 COPYRIGHT & 7001 BY DARY AEROSPACE LTD
THE DISCUSSIONATE MCCOPYCON NO SAFRICION NE EMESSIONATE SENT THE SAFRICION NECESSARY AEROSPACE AND SAFRICION NECESSARY AND SAFRICION NECESSARY AEROSPACE AND SAFRICION NECE DART AEROSPACE LTD
HAWKESBURY, ONTARO, CANADA
DRAWING NO.
R
M-DELRIN-R
SHEE SAD SAD DART AEROSPAC
SAD HAWKESBURY, ONTARIO, C.
RF M-DELRIN-R
HS TITE
CP 47 DELRIN ROUND BAR B MATERAL DRAWING TO CURRENT STANDARDS, ADD MATERAL DOLOR WHITE. ADD REASON CIR: 110. ADD ACETAL AS OPTION (REV. A1).

A NEW ISSUE APPROVED HS DE APPR. CP DATE 17.10.19 CHECKED MFG. APPR. A NI REV. DESIGN DRAWN APPROVED

FW 18-657

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### MATERIAL RECEIPT INSPECTION FORM

DATE: 18/06/0	75			TOTBATOL	1 NO 10090	214/50833		
MATERIAL CERT REC'D: /25  QUANTITY RECEIVED: 51+  QUANTITY REJECTED: 0			THICK	(NESS RECE	RED: 0.37 IVED: 0.37 IVED: 0.37			
DESCRIPTION	(Ch	CR neck (N)				COMMEN	TS	
SURFACE DAMAGE Y W								
CORRECT FINISH	(0)	N				2200		
CORROSION	Y	(D)	120 20					
CORRECT GRAIN DIRECTION	Y	N						
CORRECT MATERIAL PER M-DRAWING	(Y)	N	Delrin					
CORRECT THICKNESS	(Y)	N						
PHOTO REQUIRED	Y	N						
CORRECT REF # TO LINK CERT	(Y)	N	10040	214				
CORRECT MATERIAL IDENTFICATION	-	N						
CORRECT M# ON THE MATERIAL	Y	N						
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	N						
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	(2)						
CUT SAMPLE PIEC			ERIAL AN			A HARDNE	SS CHECK.	
			HRC	HRE		DUR A	DUR D	WEBSTER
TYPE OF MATERIAL								1
SIZE OF TEST SAMPLE								
HARDNESS / DUROMETER READI	NG							
	<u>t</u> e	sters	located in t	he Quality	/ Office			

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY:	SIGNED OFF BY:
DATE: 18/06/22	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

### McMASTER-CARR.

White Delrin® Acetal Resin Oversized Bar 3/4" Thick, 3" Wide

In stock \$24.16 per ft. 8739K45



Material	(Delring Acetal Plastic
Cross Section Shape	Rectangle
Construction	Solid
Texture	Smooth
Color	White
Clarity	Opaque
Thickness	3/4"
Thickness Tolerance	0" to +0.025"
Tolerance Rating	Oversized
Width	3."
Width Tolerance	0" to +1/4"
Length	1 ft., 2 ft., 3 ft., 4 ft.
Backing Type	Plain
Hardness	Rockwell M90
Hardness Rating	Hard
For Use Outdoors	O.N.
Temperature Range	-20° to 180° F
Impact Strength	1.00 ftlbs./in.
Impact Strength Rating	Good
Tensile Strength	9,000 psi
Tensile Strength Rating	Good
Specifications Met	ASTM D6100, Made of FDA Listed Material, NSF/ANSI Standard 51 for Food Contact, NSF/ANSI Standard 61 for Drinking Water
Density	0.051 lbs./cu, in.
Coefficient of Friction	0.20
Dielectric Strength	435 V/mil

## White Delrin® Acetal Resin Oversized Bar, 3/4" Thick, 3" Wide | McMaster-Carr

6/22/2018

0.30%	mal 8.5 × 10 <sup>-5</sup> in /in./°F	Compliant	
Water Absorption	Coefficient of Thermal Expansion	ROHS	Water Absorption Coefficient of Therr Expansion

resistant material with a naturally slippery surface. Also known as acetal homopolymer, it resists moisture and has the ability to hold tight tolerances. It's often used for gears, bushings, and bearings. These sheets, bars, and strips are made of Delrin® acetal resin, a wear-





DESIGN	A DRAWN BY	DART AEROSP, HAWKESBURY, ONTARI	
CHECKE	P APPROVED	DRAWING NO.  M- DELRIN-B	REV. A
DATE 02	2.04.30	TITLE DELRIN BAR	SCALE NTS
A	02.04.30	NEW ISSUE	
AI	02.06.04	OP ADD "ACETRON OF ACETAL"	AS OPTION

PURCHASE MATERIAL:

DELRIN II ISOE OR ACETRON OF ACETAL

PART NUMBER:

M-DELRIN-BIT.TTT X WW.MWW WHERE TITT = THICKNESS (IN INCHES)
WW.WMW = WIDTH (IN INCHES) MIDIM

EG. 0.5" x 1.0" BAR = M-DELRIN- BO.500 x 01.000



### MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MOEL  DATE: (1/06/)	22	ugo	750x3.000	الماد	PO / BATC	H NO.: <u> </u>	40214/50	83368
MATERIAL CERT REC'D:  QUANTITY RECEIVED:  QUANTITY INSPECTED:  QUANTITY REJECTED:			TH SH	IICKNESS ORDI ICKNESS RECE EET SIZE ORDI EET SIZE RECE	ERED:	5"	-	
DESCRIPTION	(Ct	CR neck (N)		<del>*************************************</del>	COMMEN	TS		
SURFACE DAMAGE	Υ	N						-
CORRECT FINISH	(Y)	N						-
CORROSION	Υ	N						1
	Y	N						1
CORRECT MATERIAL PER M-DRAWING	V	N	Delrin					1
CORRECT THICKNESS	<b>(V)</b>	N						1
PHOTO REQUIRED	Υ	(M)						1
CORRECT REF # TO LINK CERT	Y)	N	100402	4		**		1
	N)	Ν						
	Y	Ν						
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	(N)						
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	N						
CUT SAMPLE PIECE	OF F	MAT	ERIAL AND ORD RESUL	PREFOR	RM A HARDNE W	SS CHECK.		
			HRC	HRB	DURA	DUR D	WEBSTER	
TYPE OF MATERIAL	Ī				1	2010	WLDSTER	
SIZE OF TEST SAMPLE								
HARDNESS / DUROMETER READING	g							
	tes	sters	located in the	Quality Off	ice			

QC 18 INSPECTION

ENGINEERING SIGNOFF (if required)

INSPECTED BY:

DATE:

DATE

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

### 6/22/2018 McMASTER-CARR

## atigue-Recistent 301 Stainless Stool Shoot



\$68.84 Each 1217T24



Material	301 Stainless Steel
Cross Section Shape	Rectangle
Construction	Solid
Appearance	Plain
Thickness	0.042"
Thickness Tolerance	-0.005" to 0.005"
Tolerance Rating	Standard
Width	12"
Width Tolerance	-1/16" to 1/16"
Length	36"
Length Tolerance	-1/16" to 1/16"
Yield Strength	75,000 psi
Fabrication	Cold Worked
Temper	1/4 Hard
Temper Rating	Hardened
Hardness	Rockwell C25 (Hard)
Heat Treatable	0
Min. Temperature	Not Rated
Maximum Temperature	1550° F
Specifications Met	AMS 5517 ASTM A240
Flatness Tolerance	Not Rated
Density	0.29 lbs./cu. in.
Surface Resistivity	440 ohm-cir, mil/ft,
Melting Point Temperature	2500° F
Modulus of Elasticity	$28 \text{ ksi} \times 10^3$
Thermal Conductivity	110 Btu/hr. × in./sq. ft./°F @ 212° F
Elongation	3%

6/22/2018

70,52-78%	0-0.15%	16-18%	0-2%	%8-9	0-0.1%	0-0.45%	0-0.75%	0-0.03%	Compliant
Iron	Carbon	Chromíum	Manganese	Nickel	Nitrogen	Phosphorus	Silicon	Sulfur	RoHS

Able to withstand repeated stress and wear, 301 stainless steel has the strength required for applications such as springs and fasteners. It maintains its corrosion resistance in temperatures up to 1550° F.

OELEASED ZOTO -12-16

REV. A SHEET 1 OF 1 SCALE 10.11.08 DATE COPYRIGHT © 2010 BY DART AEROSPACE LTD
THIS DODAWAR IN PRINCIPLE AND SHARE OF SAME OF THE EPICATE INTERFERENCE FOR AND THE RESIDENCE APPROVED THE STREET APPROVED THE STREET APPROVED THE STREET APPROVED THE STREET APPROVED DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
M301S RF BY TITLE 301 SS SHEET DESCRIPTION # # 8 40 3 # 10.11.08 A NEW ISSUE DESIGN
DRAWN
CHECKED
MFG. APPR.
APPROVED
DE APPR.
DATE 10 REV.

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PER AMS 5617 OR AMS 5918 OR AMS 5902 OR ASTM A666 WITH MIN. Flu = 125 Ksi & MIN Fty = 75 Ksi WHERE "TT" = GAUGE THICKNESS M301S TT GA PART NUMBER:

EG. 16 GAUGE SS SHEET = M301S16GA GAUGE THICKNESS REFERENCE:

THICKNESS

RANGE[IIN]

0.019 - 0.023

0.024 - 0.025

0.030 - 0.032

0.031 - 0.041

0.041 - 0.042

0.055 - 0.045

0.041 - 0.045

0.059 - 0.045

0.041 - 0.045

0.059 - 0.045

0.041 - 0.045

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0.041 - 0.045 NOM. THICK. (IN) 0.01875 0.021875 0.021875 0.021875 0.021875 0.03175 0.0375 0.050 0 

SPECIFICATION CONTROL DRAWING

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SPECIFICATION:

PURCHASE MATERIAL: AISÍ 201 SS SHEET MINIMUM 1/4 HARDNESS (NOT ANNEALED) 28 FINISH

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### MATERIAL RECEIPT INSPECTION FORM

4 1 6

MATERIAL: M3013  DATE: 18/06/			PO / B.	ATCH N	o.: <u>1004</u>	0214/508331	
MATERIAL CERT REC'D: QUANTITY RECEIVED: 354 QUANTITY INSPECTED: 0		T S	HICKNESS ( HICKNESS F HEET SIZE ( HEET SIZE F	RECEIVE	D: 0-04	36"	
DESCRIPTION	NCR (Check Y/N)			COM	MENTS		
SURFACE DAMAGE	YN						
CORRECT FINISH	(Y) N				***************************************		
CORROSION	Y (N)						
CORRECT GRAIN DIRECTION	Ø N	1					
CORRECT MATERIAL PER M-DRAWING	N	AMS	5517				
CORRECT THICKNESS	CY N						
PHOTO REQUIRED	YW						
CORRECT REF # TO LINK CERT	(V) N	Pody	1214			_	
CORRECT MATERIAL IDENTFICATION							
CORRECT M# ON THE MATERIAL	√ N			***			
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)						
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)						
						18,00	
CUT SAMPLE PIECE	E OF MAT	TERIAL A	ND PREF	ORM A HAR	DNESS	CHECK	
Western at Subtract Property State and State a			ULTS BEL				
		HRC	HRB	DUR	A	DUR D	WEBSTER
TYPE OF MATERIAL							
SIZE OF TEST SAMPLE			****				
HARDNESS / DUROMETER READI	NG						
	testers	located in	the Quality (	Office			

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: A	SIGNED OFF BY:
DATE: 18/04/21-89	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in